

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P826520

Luminaire Tested: **OHBL-18SE-N-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P826520
REPORT IS A COMBINATION OF REPORTS P826236 AND G3-2310-221-6
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18SE-N-UNV-L830-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

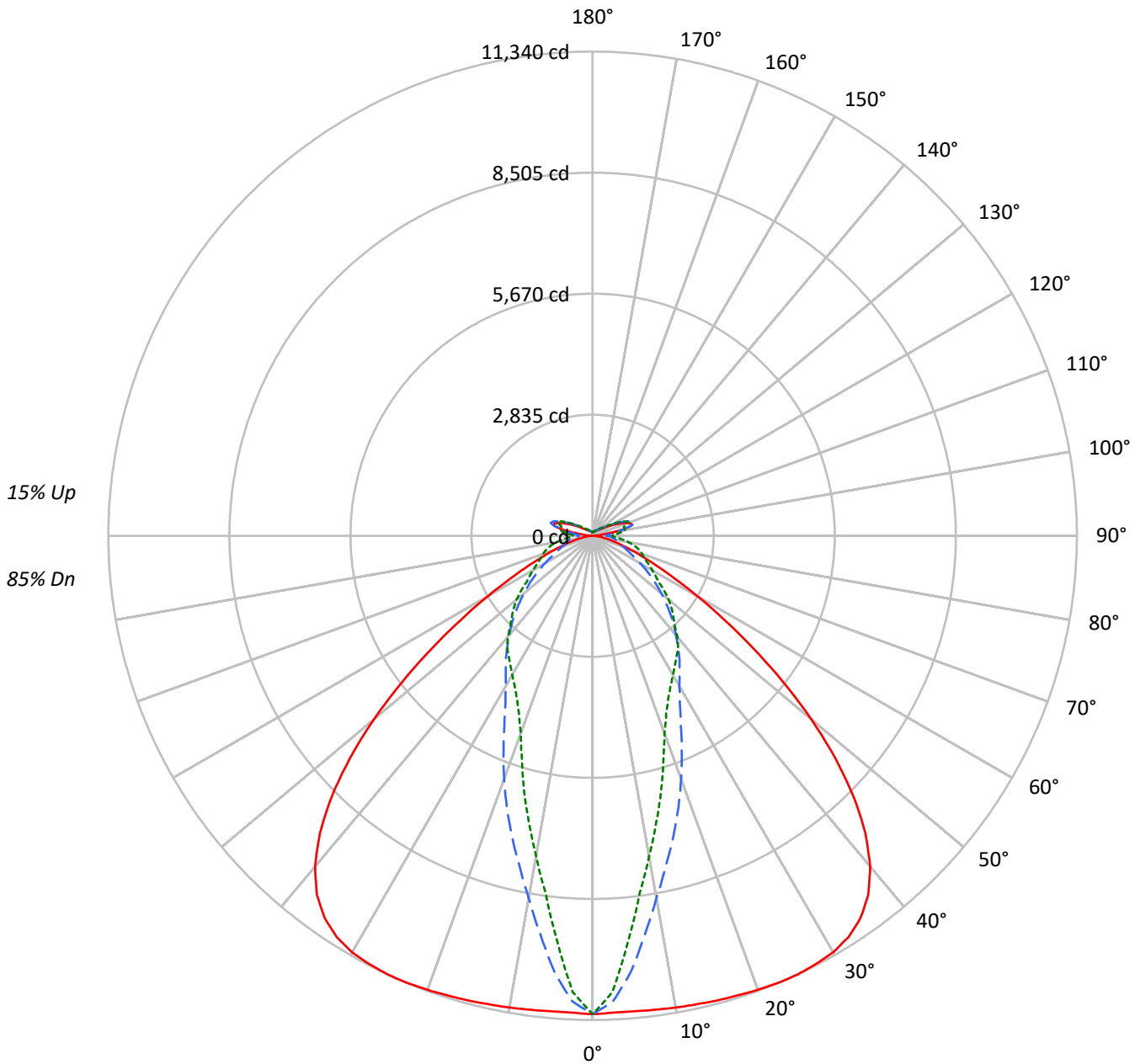
Lumens per Lamp: N/A
Luminaire Lumens: 18786.3 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85	85	85	85
1	106	102	98	94	102	98	94	91	91	88	86	85	83	80	79	77	76	73	73	73	73
2	98	90	84	79	94	87	81	77	81	77	73	76	72	69	71	68	65	62	62	62	62
3	90	80	73	67	86	78	71	66	73	67	63	68	64	60	64	60	57	54	54	54	54
4	83	72	64	58	80	70	63	57	66	60	55	62	57	52	58	54	50	48	48	48	48
5	77	65	57	51	74	63	56	50	60	53	48	56	51	47	53	48	45	42	42	42	42
6	71	59	51	45	69	58	50	45	54	48	43	51	46	42	49	44	40	38	38	38	38
7	67	54	46	41	64	53	45	40	50	44	39	47	42	38	45	40	36	34	34	34	34
8	62	50	42	37	60	49	41	36	46	40	35	44	38	34	42	37	33	31	31	31	31
9	59	46	39	34	56	45	38	33	43	37	32	41	35	31	39	34	30	29	29	29	29
10	55	43	36	31	53	42	35	30	40	34	30	38	33	29	36	32	28	26	26	26	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19134	19134	19134
5°	19002	17425	16280
10°	19123	14678	13118
15°	19401	12553	10820
20°	19843	10614	8797
25°	20419	8785	7749
30°	21003	7569	7241
35°	21306	6898	6942
40°	20796	6231	6632
45°	18980	5630	6189
50°	15867	4974	5862
55°	11924	4357	5275
60°	8242	3737	5120
65°	5446	3218	5102
70°	3630	3020	5485
75°	2429	3115	6079
80°	1573	3450	6653
85°	809	4315	7933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	943.0	5.0
10°-20°	2218.4	11.8
20°-30°	2780.8	14.8
30°-40°	2950.7	15.7
40°-50°	2667.9	14.2
50°-60°	1934.4	10.3
60°-70°	1214.0	6.5
70°-80°	803.4	4.3
80°-90°	468.6	2.5
90°-100°	440.0	2.3
100°-110°	903.8	4.8
110°-120°	738.0	3.9
120°-130°	354.5	1.9
130°-140°	175.5	0.9
140°-150°	101.0	0.5
150°-160°	57.2	0.3
160°-170°	27.0	0.1
170°-180°	8.2	0.0
0°-30°	5942.3	31.6
0°-40°	8893.0	47.3
0°-60°	13495.4	71.8
0°-90°	15981.2	85.1
90°-120°	2081.7	11.1
90°-150°	2712.7	14.4
90°-180°	2805.0	14.9
0°-180°	18786.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11203	11203	11203	11203	11203	
5°	11180	10894	10254	9778	9532	###
15°	11266	9182	7293	6486	6192	3195
25°	11340	7100	4883	4334	4197	5239
35°	10934	4720	3544	3433	3432	6797
45°	8644	2990	2568	2630	2675	6585
55°	4576	1853	1676	1818	1883	4135
65°	1637	1075	970	1243	1382	1703
75°	505	579	652	1012	1073	563
85°	88	240	477	663	609	106
90°	5	132	320	447	456	9
95°	54	174	403	543	586	157
105°	942	970	962	794	755	894
115°	656	684	770	798	795	661
125°	327	348	399	414	410	306
135°	197	203	223	240	242	156
145°	148	152	157	167	167	94
155°	121	126	129	131	129	55
165°	93	94	95	95	95	27
175°	84	85	85	86	86	8
180°	84	84	84	84	84	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11202.8	11202.8	11202.8	11202.8	11202.8
2.5°	11179.3	11115.3	10916.0	10794.4	10692.0
5°	11180.3	10893.5	10253.8	9778.3	9532.0
7.5°	11196.4	10558.7	9406.1	8712.0	8441.3
10°	11220.8	10144.0	8615.0	7875.1	7622.4
12.5°	11239.0	9676.9	7918.7	7158.6	6881.4
15°	11265.7	9182.3	7293.0	6485.8	6191.5
17.5°	11290.2	8716.3	6674.5	5831.1	5503.8
20°	11314.7	8214.1	6056.1	5187.1	4917.4
22.5°	11338.2	7684.2	5452.6	4687.1	4502.7
25°	11340.3	7100.0	4883.3	4334.2	4196.6
27.5°	11312.6	6494.3	4421.6	4038.8	3953.6
30°	11264.6	5906.9	4063.4	3825.6	3764.8
32.5°	11145.2	5307.6	3786.2	3619.8	3584.6
35°	10934.0	4720.2	3544.1	3433.2	3432.2
37.5°	10601.4	4198.8	3281.8	3262.6	3286.1
40°	10109.8	3742.4	3033.4	3084.6	3084.6
42.5°	9454.2	3345.8	2808.4	2860.6	2846.8
45°	8643.8	2989.7	2568.5	2630.4	2675.2
47.5°	7704.4	2676.2	2323.3	2442.7	2504.5
50°	6683.1	2377.7	2099.4	2251.9	2322.2
52.5°	5612.6	2101.5	1880.8	2055.7	2112.2
55°	4576.2	1853.1	1676.1	1817.9	1883.0
57.5°	3637.9	1616.4	1475.7	1610.0	1744.3
60°	2830.8	1412.8	1287.0	1478.8	1613.2
62.5°	2162.3	1231.5	1110.0	1356.2	1490.6
65°	1636.7	1074.8	970.3	1243.2	1381.8
67.5°	1233.6	939.3	861.5	1161.1	1296.5
70°	926.6	808.2	774.0	1110.0	1231.5
72.5°	684.5	687.7	704.8	1065.1	1157.9
75°	505.4	579.0	651.5	1011.9	1072.7
77.5°	361.4	479.8	603.5	947.9	969.2
80°	250.6	391.3	553.4	863.6	845.5
82.5°	156.7	313.5	508.5	770.9	720.8
85°	88.5	239.9	476.6	663.2	608.8
87.5°	39.5	179.1	416.9	517.1	483.0
90°	4.7	131.9	319.9	446.9	456.5
92.5°	18.0	125.1	321.8	451.0	473.8
95°	53.6	173.6	403.1	542.7	585.5
97.5°	255.6	332.7	519.4	659.8	703.2
100°	520.1	600.8	650.2	747.8	766.9
102.5°	801.2	840.3	768.1	772.5	773.6
105°	941.9	970.0	962.4	793.9	754.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	762.6	799.3	881.4	895.2	870.8
115°	655.7	683.5	769.8	797.9	795.4
117.5°	563.6	580.6	660.0	685.7	687.8
120°	468.7	491.8	564.1	581.9	576.3
122.5°	395.2	414.9	473.8	490.1	483.4
125°	327.3	348.3	398.6	413.6	409.8
127.5°	277.9	292.1	336.6	352.4	350.4
130°	243.4	253.0	287.9	303.7	304.7
132.5°	216.4	224.9	250.7	269.3	268.4
135°	196.8	202.6	223.0	239.8	241.7
137.5°	181.0	186.9	201.1	217.8	217.8
140°	167.0	172.8	183.9	198.6	199.5
142.5°	156.0	160.7	168.7	181.3	181.3
145°	147.7	152.5	157.4	166.9	166.8
147.5°	139.3	145.2	148.1	155.3	154.3
150°	132.8	137.9	140.7	144.8	144.7
152.5°	126.3	131.4	134.2	137.3	136.1
155°	120.7	125.8	128.7	130.7	128.6
157.5°	103.3	105.2	107.0	107.9	107.9
160°	99.6	100.5	102.4	103.3	103.3
162.5°	95.8	96.8	97.7	98.6	98.6
165°	93.1	94.0	94.9	94.9	94.9
167.5°	90.3	90.3	91.2	92.1	92.1
170°	87.5	88.4	88.4	89.3	89.3
172.5°	85.6	86.5	86.5	86.5	87.5
175°	83.8	84.7	84.7	85.6	85.6
177.5°	83.8	83.8	83.8	83.8	83.8
180°	83.8	83.8	83.8	83.8	83.8



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	945.6	984.5	1030.3	888.4	782.3
110°	874.1	912.3	979.2	947.0	863.3



(END OF REPORT)